

Title (en)  
ELECTRON BEAM STERILISATION EQUIPMENT

Title (de)  
ELEKTRONENSTRAHLSTERILISATIONSAUSRÜSTUNG

Title (fr)  
ÉQUIPEMENT DE STÉRILISATION PAR FAISCEAU ÉLECTRONIQUE

Publication  
**EP 3208810 A1 20170823 (EN)**

Application  
**EP 15851581 A 20151005**

Priority  
• JP 2014209571 A 20141014  
• JP 2015078149 W 20151005

Abstract (en)  
One object is to provide an electron beam sterilization apparatus for sterilizing a preform product (P) by applying an electron beam while conveying the preform product (P), the apparatus comprising: an input star wheel (21) configured to convey the preform product (P) in a circular path; and an outer-surface electron beam application device and an inner-surface electron beam application device configured to apply an electron beam to the preform product (P) being conveyed by the input star wheel (21). A blocking short tube (31) is provided on a lower surface of the star wheel plate (22) of the input star wheel (21) so as to block radioactive rays produced by application of the electron beam and surround a central axis (lv) of the input star wheel (21). The blocking short tube (31) includes a ventilation space (34) formed therein.

IPC 8 full level  
**G21K 5/00** (2006.01); **A61L 2/08** (2006.01); **B65B 55/04** (2006.01); **B65B 55/08** (2006.01); **B67C 7/00** (2006.01); **G21K 5/04** (2006.01); **G21K 5/10** (2006.01)

CPC (source: EP US)  
**A61L 2/08** (2013.01 - EP US); **A61L 2/087** (2013.01 - US); **B29B 13/08** (2013.01 - US); **B65B 55/04** (2013.01 - EP US); **B65B 55/08** (2013.01 - EP US); **B65G 47/846** (2013.01 - US); **B67C 7/00** (2013.01 - EP US); **G21K 5/00** (2013.01 - EP US); **G21K 5/02** (2013.01 - US); **G21K 5/08** (2013.01 - EP US); **A61L 2202/23** (2013.01 - US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3208810 A1 20170823**; **EP 3208810 A4 20171025**; **EP 3208810 B1 20201202**; CN 106796823 A 20170531; CN 106796823 B 20181113; JP 6635932 B2 20200129; JP WO2016059991 A1 20170831; US 10034952 B2 20180731; US 2017239379 A1 20170824; WO 2016059991 A1 20160421

DOCDB simple family (application)  
**EP 15851581 A 20151005**; CN 201580054291 A 20151005; JP 2015078149 W 20151005; JP 2016554040 A 20151005; US 201515518843 A 20151005